

In the Claims:

Please amend applicant's claims, without prejudice, to read as follows:

1. (currently amended) A non-laser light source assembly adapted to supply light energy when said light source is energized comprising

a) a housing defined by at least one outer wall, said at least one outer wall defining an outer face and inner face;

b) a light source positioned within said housing;

c) means for energizing said light source;

d) a bounded volume of photon-producing gas positioned within said housing;

wherein at least a portion of said outer wall is substantially transparent to photons produced by said bounded volume of gas, said substantially transparent portion of said outer wall being temperature-controlled through direct contact of a cooling fluid with the inner face thereof; and

wherein said light source includes a bounded region that is adapted to receive a cooling fluid, and wherein said cooling fluid passes in direct contact with said inner face of said outer wall and then enters said bounded region of said light source to provide cooling to said light source.

2. (previously presented) A non-laser light source assembly according to claim 1, wherein said bounded volume of photon-producing gas generates substantially monochromatic light having a wavelength of between 260 nm and 310 nm.

3. (previously presented) A non-laser light source assembly according to claim 1, wherein said photon-producing gas is an excimer gas selected from the group consisting of XeI, Cl₂, XeBr, Br₂, XeCl, filtered XeBr, I₂ and XeF.

4. (previously presented) A non-laser light source assembly according to claim 1, wherein said substantially transparent portion of said outer wall is fabricated from quartz.

5. (previously presented) A non-laser light source assembly according to claim 1, wherein said substantially transparent portion of said outer wall is temperature-controlled by a cooling fluid that flows adjacent to the inner face of said outer wall.

6. (previously presented) A non-laser light source assembly according to claim 1, wherein a treatment fluid is positioned adjacent said outer face of said substantially transparent portion of said outer wall, said treatment fluid being selected from the group consisting of blood products, pharmaceuticals, injectable solutions and vaccines.

7. (previously presented) A non-laser light source assembly according to claim 1, further comprising at least one reflective surface associated with said housing, said at least one reflective surface being oriented to direct photons produced by said bounded volume of gas toward said substantially transparent portion of said outer wall.

8. (previously presented) A non-laser light source assembly according to claim 1, wherein said housing functions as a ground for said light source.

9. (previously presented) A non-laser light source assembly according to claim 1, further comprising at least one flange mounted with respect to said outer wall, wherein said substantially transparent portion is mounted to a non-transparent portion of said outer wall by said at least one flange.

10. (previously presented) A non-laser light source assembly according to claim 9, wherein said substantially transparent portion of said outer wall is defined by a plurality of substantially transparent panels that are mounted with respect to said non-transparent portion of said outer wall by said at least one flange.

11. (previously presented) A non-laser light source assembly according to claim 10, wherein said at least one mounting flange includes at least one cross beam positioned between adjacent substantially transparent panels.

12. (previously presented) A non-laser light source assembly according to claim 11, wherein said at least one cross beam provide grounding for said light source.

13. (previously presented) A non-laser light source assembly according to claim 9, wherein said at least one flange defines a treatment region for positioning of a treatment fluid in direct juxtaposition with said substantially transparent portion of said outer wall.

14. (previously presented) A non-laser light source assembly according to claim 1, wherein said light source is removably positioned within said housing.

15. (previously presented) A non-laser light source assembly according to claim 1, wherein a bounded region is defined between said at least one outer wall and said light source, and wherein said bounded region contains cooling fluid in direct contact with the inner face of said outer wall.

16. (canceled)

17. (previously presented) A non-laser light source assembly according to claim 1, wherein said light source generates photons that pass through said cooling fluid that is in direct contact with said inner face of said outer wall and through said substantially transparent portion of said outer wall to treat a fluid positioned in juxtaposition with said outer face of said substantially transparent portion of said outer wall.

18. (previously presented) A non-laser light source assembly according to claim 17, wherein said fluid in juxtaposition with said outer face is positioned within a container that is substantially transparent to ultraviolet radiation.

19. (new) A non-laser light source assembly according to claim 1, further comprising a fluid positioned external to said housing and in alignment with said substantially transparent portion of said outer wall.

20. (new) A non-laser light source assembly according to claim 19, wherein said fluid positioned external to said housing and in alignment with said substantially transparent portion of said outer wall is a complex fluid selected from the group consisting of a blood product, a pharmaceutical, an injectable solution, and a vaccine.

21. (new) A non-laser light source assembly according to claim 19, wherein said fluid positioned external to said housing and in alignment with said substantially transparent portion of said outer wall is positioned within a container.